



RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number: 10/695,584
Source: FWO
Date Processed by STIC: 11/5/03

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

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Revised 10/08/03



IFWO

RAW SEQUENCE LISTING

DATE: 11/05/2003

PATENT APPLICATION: US/10/695,584

TIME: 09:43:58

Input Set : A:\Sequence.txt

Output Set: N:\CRF4\11052003\J695584.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: FENG, YIQING

7 BAUM, CHARLES M

8 CAPARON, MAIRE H

9 ZURFLUH, LINDA L

10 KLEIN, BARBARA K

11 MCWHERTER, CHARLES A

12 STATEN, NICHOLAS R

13 SUMMERS, NEENA L

14 BAUER, S C

15 LEE, STEPHEN C

17 (ii) TITLE OF INVENTION: MULTI-FUNCTIONAL HEMATOPOIETIC

18 FUSION PROTEINS BETWEEN SEQUENCE REARRANGED

19 G-CSF RECEPTOR AGONISTS AND OTHER

20 HEMATOPOIETIC FACTORS

22 (iii) NUMBER OF SEQUENCES: 313

24 (iv) CORRESPONDENCE ADDRESS:

25 (A) ADDRESSEE: CAROL M. NIELSEN, GARDERE WYNNE SEWELL, LLP

26 (B) STREET: 1000 LOUISIANA, SUITE 3400

27 (C) CITY: HOUSTON

28 (D) STATE: TEXAS

29 (E) COUNTRY: USA

30 (F) ZIP: 77002-5007

32 (v) COMPUTER READABLE FORM:

33 (A) MEDIUM TYPE: Diskette

34 (B) COMPUTER: IBM PC compatible

35 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

36 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

38 (vi) CURRENT APPLICATION DATA:

C--> 39 (A) APPLICATION NUMBER: US/10/695,584

C--> 40 (B) FILING DATE: 27-Oct-2003

41 (C) CLASSIFICATION:

55 (vii) PRIOR APPLICATION DATA:

44 (A) APPLICATION NUMBER: US 09/510,238

45 (B) FILING DATE: 22-FEB-2002

48 (A) APPLICATION NUMBER: US 08/835,162

49 (B) FILING DATE: 04-APR-1997

52 (A) APPLICATION NUMBER: WO PCT/US 96/15774

53 (B) FILING DATE: 06-OCT-1996

56 (A) APPLICATION NUMBER: US 60/004,834

57 (B) FILING DATE: 05-OCT-1995

59 (viii) ATTORNEY/AGENT INFORMATION:

Comply
No Need

ms-6

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Input Set : A:\Sequence.txt

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60 (A) NAME: NIELSEN, CAROL M
61 (B) REGISTRATION NUMBER: 37,676
62 (C) REFERENCE/DOCKET NUMBER: 2910/3
64 (ix) TELECOMMUNICATION INFORMATION:
65 (A) TELEPHONE: 713-276-5383
66 (B) TELEFAX: 713-276-5383
69 (2) INFORMATION FOR SEQ ID NO: 1:
71 (i) SEQUENCE CHARACTERISTICS:
72 (A) LENGTH: 174 amino acids
73 (B) TYPE: amino acid
74 (C) STRANDEDNESS: unknown
75 (D) TOPOLOGY: unknown
77 (ii) MOLECULE TYPE: protein
80 (ix) FEATURE:
81 (A) NAME/KEY: Modified-site
82 (B) LOCATION: 1
83 (D) OTHER INFORMATION: /note= "Xaa at position 1 is Thr,
84 Ser, Arg, Tyr or Gly;"
86 (ix) FEATURE:
87 (A) NAME/KEY: Modified-site
88 (B) LOCATION: 2
89 (D) OTHER INFORMATION: /note= "Xaa at position 2 is Pro or
90 Leu;"
92 (ix) FEATURE:
93 (A) NAME/KEY: Modified-site
94 (B) LOCATION: 3
95 (D) OTHER INFORMATION: /note= "Xaa at position 3 is Leu,
96 Arg, Tyr or Ser;"
98 (ix) FEATURE:
99 (A) NAME/KEY: Modified-site
100 (B) LOCATION: 13
101 (D) OTHER INFORMATION: /note= "Xaa at position 13 is Phe,
102 Ser, His, Thr or Pro;"
104 (ix) FEATURE:
105 (A) NAME/KEY: Modified-site
106 (B) LOCATION: 16
107 (D) OTHER INFORMATION: /note= "Xaa at position 16 is Lys,
108 Pro, Ser, thr or His;"
110 (ix) FEATURE:
111 (A) NAME/KEY: Modified-site
112 (B) LOCATION: 17
113 (D) OTHER INFORMATION: /note= "Xaa at position 17 is Cys,
114 Ser, Gly, Ala, Ile, Tyr or Arg;"
116 (ix) FEATURE:
117 (A) NAME/KEY: Modified-site
118 (B) LOCATION: 18
119 (D) OTHER INFORMATION: /note= "Xaa at position 18 is Leu,
120 Thr, Pro, His, Ile or Cys;"
122 (ix) FEATURE:

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123 (A) NAME/KEY: Modified-site
124 (B) LOCATION: 22
125 (D) OTHER INFORMATION: /note= "Xaa at position 22 is Arg,
126 Tyr, Ser, Thr or Ala;"
128 (ix) FEATURE:
129 (A) NAME/KEY: Modified-site
130 (B) LOCATION: 24
131 (D) OTHER INFORMATION: /note= "Xaa at position 24 is Ile,
132 Pro, Tyr or Leu;"
134 (ix) FEATURE:
135 (A) NAME/KEY: Modified-site
136 (B) LOCATION: 27
137 (D) OTHER INFORMATION: /note= "Xaa at position 27 is Asp,
138 or Gly;"
140 (ix) FEATURE:
141 (A) NAME/KEY: Modified-site
142 (B) LOCATION: 30
143 (D) OTHER INFORMATION: /note= "Xaa at position 30 is Ala,
144 Ile, Leu or Gly;"
146 (ix) FEATURE:
147 (A) NAME/KEY: Modified-site
148 (B) LOCATION: 34
149 (D) OTHER INFORMATION: /note= "Xaa at position 34 is Lys
150 or Ser;"
152 (ix) FEATURE:
153 (A) NAME/KEY: Modified-site
154 (B) LOCATION: 36
155 (D) OTHER INFORMATION: /note= "Xaa at position 36 is Cys
156 or Ser;"
158 (ix) FEATURE:
159 (A) NAME/KEY: Modified-site
160 (B) LOCATION: 42
161 (D) OTHER INFORMATION: /note= "Xaa at position 42 is Cys
162 or Ser;"
164 (ix) FEATURE:
165 (A) NAME/KEY: Modified-site
166 (B) LOCATION: 43
167 (D) OTHER INFORMATION: /note= "Xaa at position 43 is His,
168 Thr, Gly, Val, Lys, Trp, Ala, Arg, Cys, or Leu;"
170 (ix) FEATURE:
171 (A) NAME/KEY: Modified-site
172 (B) LOCATION: 44
173 (D) OTHER INFORMATION: /note= "Xaa at position 44 is Pro,
174 Gly, Arg, Asp, Val, Ala, His, Trp, Gln, or Thr;"
176 (ix) FEATURE:
177 (A) NAME/KEY: Modified-site
178 (B) LOCATION: 46
179 (D) OTHER INFORMATION: /note= "Xaa at position 46 is Glu,
180 Arg, Phe, Arg, Ile or Ala;"

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182      (ix) FEATURE:
183          (A) NAME/KEY: Modified-site
184          (B) LOCATION: 47
185          (D) OTHER INFORMATION: /note= "Xaa at position 47 is Leu
186 or Thr;"
188      (ix) FEATURE:
189          (A) NAME/KEY: Modified-site
190          (B) LOCATION: 49
191          (D) OTHER INFORMATION: /note= "Xaa at position 49 is Leu,
192 Phe, Arg or Ser;"
194      (ix) FEATURE:
195          (A) NAME/KEY: Modified-site
196          (B) LOCATION: 50
197          (D) OTHER INFORMATION: /note= "Xaa at position 50 is Leu,
198 Ile, His, Pro or Tyr;"
200      (ix) FEATURE:
201          (A) NAME/KEY: Modified-site
202          (B) LOCATION: 54
203          (D) OTHER INFORMATION: /note= "Xaa at position 54 is Leu
204 or His;"
206      (ix) FEATURE:
207          (A) NAME/KEY: Modified-site
208          (B) LOCATION: 64
209          (D) OTHER INFORMATION: /note= "Xaa at position 64 is Cys
210 or Ser;"
212      (ix) FEATURE:
213          (A) NAME/KEY: Modified-site
214          (B) LOCATION: 67
215          (D) OTHER INFORMATION: /note= "Xaa at position 67 is Gln,
216 Lys, Leu or Cys;"
218      (ix) FEATURE:
219          (A) NAME/KEY: Modified-site
220          (B) LOCATION: 70
221          (D) OTHER INFORMATION: /note= "Xaa at position 70 is Gln,
222 Pro, Leu, Arg or Ser;"
224      (ix) FEATURE:
225          (A) NAME/KEY: Modified-site
226          (B) LOCATION: 74
227          (D) OTHER INFORMATION: /note= "Xaa at position 74 is Cys
228 or Ser;"
230      (ix) FEATURE:
231          (A) NAME/KEY: Modified-site
232          (B) LOCATION: 104
233          (D) OTHER INFORMATION: /note= "Xaa at position 104 is Asp,
234 Gly or Val;"
236      (ix) FEATURE:
237          (A) NAME/KEY: Modified-site
238          (B) LOCATION: 108
239          (D) OTHER INFORMATION: /note= "Xaa at position 108 is Leu,
```

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240 Ala, Val, Arg, Trp, Gln or Gly;"

242 (ix) FEATURE:

243 (A) NAME/KEY: Modified-site

244 (B) LOCATION: 115

245 (D) OTHER INFORMATION: /note= "Xaa at position 115 is Thr,

246 His, Leu or Ala;"

248 (ix) FEATURE:

249 (A) NAME/KEY: Modified-site

250 (B) LOCATION: 120

251 (D) OTHER INFORMATION: /note= "Xaa at position 120 is Gln,

252 Gly, Arg, Lys or His"

254 (ix) FEATURE:

255 (A) NAME/KEY: Modified-site

256 (B) LOCATION: 123

257 (D) OTHER INFORMATION: /note= "Xaa at position 123 is Glu,

258 Arg, Phe or Thr"

260 (ix) FEATURE:

261 (A) NAME/KEY: Modified-site

262 (B) LOCATION: 144

263 (D) OTHER INFORMATION: /note= "Xaa at position 144 is Phe,

264 His, Arg, Pro, Leu, Gln or Glu;"

266 (ix) FEATURE:

267 (A) NAME/KEY: Modified-site

268 (B) LOCATION: 146

269 (D) OTHER INFORMATION: /note= "Xaa at position 146 is Arg

270 or Gln;"

272 (ix) FEATURE:

273 (A) NAME/KEY: Modified-site

274 (B) LOCATION: 147

275 (D) OTHER INFORMATION: /note= "Xaa ^{at} position 147 is Arg

276 or Gln;"

278 (ix) FEATURE:

279 (A) NAME/KEY: Modified-site

280 (B) LOCATION: 156

281 (D) OTHER INFORMATION: /note= "Xaa at position 156 is His,

282 Gly or Ser;"

284 (ix) FEATURE:

285 (A) NAME/KEY: Modified-site

286 (B) LOCATION: 159

287 (D) OTHER INFORMATION: /note= "Xaa at position 159 is Ser,

288 Arg, Thr, Tyr, Val or Gly;"

290 (ix) FEATURE:

291 (A) NAME/KEY: Modified-site

292 (B) LOCATION: 162

293 (D) OTHER INFORMATION: /note= "Xaa at position 162 is Glu,

294 Leu, Gly or Trp;"

296 (ix) FEATURE:

297 (A) NAME/KEY: Modified-site

298 (B) LOCATION: 163

*Gln is at position 120 (see p.6)**FYI: Xaa is also shown at position 124 (see p.6)**insert a space after position*

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

Xaa	Xaa	Xaa	Gly	Pro	Ala	Ser	Ser	Leu	Pro	Gln	Ser	Xaa	Leu	Leu	Xaa	1	5	10	15
Xaa	Xaa	Glu	Gln	Val	Xaa	Lys	Xaa	Gln	Gly	Xaa	Gly	Ala	Xaa	Leu	Gln	20	25	30	
Glu	Xaa	Leu	Xaa	Ala	Thr	Tyr	Lys	Leu	Xaa	Xaa	Xaa	Glu	Xaa	Xaa	Val	35	40	45	
Xaa	Xaa	Gly	His	Ser	Xaa	Gly	Ile	Pro	Trp	Ala	Pro	Leu	Ser	Ser	Xaa	50	55	60	
Pro	Ser	Xaa	Ala	Leu	Xaa	Leu	Ala	Gly	Xaa	Leu	Ser	Gln	Leu	His	Ser	65	70	75	80
Gly	Leu	Phe	Leu	Tyr	Gln	Gly	Leu	Leu	Gln	Ala	Leu	Glu	Gly	Ile	Ser	85	90	95	
Pro	Glu	Leu	Gly	Pro	Thr	Leu	Xaa	Thr	Leu	Gln	Xaa	Asp	Val	Ala	Asp	100	105	110	
Phe	Ala	Xaa	Thr	Ile	Trp	Gln	Gln	Met	Glu	Xaa	Xaa	Gly	Met	Ala	Pro	115	120	125	
Ala	Leu	Gln	Pro	Thr	Gln	Gly	Ala	Met	Pro	Ala	Phe	Ala	Ser	Ala	Xaa	130	135	140	
Gln	Xaa	Xaa	Ala	Gly	Gly	Val	Leu	Val	Ala	Ser	Xaa	Leu	Gln	Xaa	Phe	145	150	155	160
Leu	Xaa	Xaa	Ser	Tyr	Arg	Val	Leu	Xaa	Xaa	Leu	Ala	Gln	Pro	165	170				